Executive Engineer

SBR No. 39/18-19
DATED 18-9-18

EE/ELE/Y/BR.No. 75/18-19
Dt. 18-9-18

Original/Duplicate/Triplicate

# CONTRACT CERTIFICATE

(For Other Works)

No.2 Nd & Final bill

Date.....2017

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Sub Divisional Cash Book Voucher No..... Dated.....

**Job Code :-** 011-18-000026

Head of Account :**P -3255**

**Schedule Docket No.**

**D.R.No. :**

**Name of Work :-** Providing Additional electrical fittings/Timers/Control wires etc,at New Zones for Yelahanka assembly constituency Ward no 1 to 04.

**Name of Contractor and Full Address**: Technical Manager KRIDL BBMP Bengaluru .

**Reference to Agreement No:**EE/Ele/YZ/WO/000015 /17-18 Date:27/02/2018

Certified that the measurements were taken by me on 25/7/18 and recorded of Pages 311764 to 773 of measurement Book No. 3118/17-18 and that the work is satisfactorily executed.

Officer-in-charge of work

Contractor

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Certified that the measurement were taken by me on .....and found correct. The work is satisfactorily executed. Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)
Sub-Division Officer
BBMP, Bangalore

II Memorandum of Payment

| | | |
|---|---|---|
| 1) Total value of work done or supplies made as per account within | Bill = | 798908=00 |
| 2) Deduct amount to be held in reserve being .....percent Rs..... | IT 2% | 15978=00 |
| 3) " Balance | WWC 1% | 7989=00 |
| 4) Deduct Payment: | CBFD 0.1% | 799=00 |
| a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount | FSD 7.5% | 59918=00 |
| adjusted towards cash advance recovery of | deductions = | 8H68H=00 |
| b) Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash. | Cheque = | 71H22H=00 |
| 5) Balance being unpaid value of work done held in reserve. | | |
| 6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments. | | |
| 7) Net amount due to or from Contractor unadjustments items. | | |
| 8) Advance to Contractor for materials brought to site (as detailed) within. | | |
| 9) Value of Government materials supplied. | | |
| Total amount adjusted - | | |

Contractor's Signature

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

(For use in the Office)

Witness
1.
2.

Dated

Signature of Contractor

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Paid by me by Cheque No. .....Dated.....

Cash Rs.....Dated.....

Initials of Officer making payment

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P3255 110 Village grants

ರೂ. 798908=00 ಆಡಿಟ್ ಮಾಡಿ ಪ್ಲೀಡಾಗಿದೆ

ರೂ. 71H22H=00 ಚೆಕ್ ನೀಡಬಹುದಾಗಿದೆ

ರೂ. 8H68H=00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

Executive Engineer

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು

ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

| Sl. No | Description of Item | Unit |
|---|---|---|
| | **Name Of Work:-** Providing Additional electrical fittings/Timers/Control wires etc,at New Zones for Yelahanka assembly constituency Ward no 1 to 4 | |
| 1 | LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts | Nos |
| 2 | Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe | Each |
| 3 | Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A 2 X 25 + 1 X 25 SQ.MM | Per Mtr |
| 4 | Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR | Per Mtr |
| 5 . | Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm | Nos |
| 6 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm | Mtrs |
| 7 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. ( Icu = Ics) THREE POLE 100Amps25kA. | Nos |
| 8 | Supplying and stringing of ACSR Conductor (6/2.59mm Al +1/2.59mm Steel). | Mtrs |
| 9 | Supplying and Fixing .....including all Hardware's etc. complete as per the standard technical specification of BESCOM. A)1.1 KV Pin Insulator | Nos |
| 10 | No. 8 Strain Insulator | Nos |
| 11 | Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification of BESCOM. RCC Clamp | Nos |
| 12 | Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM. 2 Pin 45x45x5mm -510mm | Nos |
| 13 | Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,,,,,,,,,, dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddles at an interval of 700mm using NF screws.c)25mm dia 2mm thick | Per Mtr |

| Previous Measurement | | Present Measurement | | | Total Upto Date | | Remarks |
|---|---|---|---|---|---|---|---|
| Qty | Cost | Qty | Rate | Amount | Qty | Cost | |
| 100 | 1872000.00 | 0 | 18720.00 | 0.00 | 100 | 1872000.00 | |
| 93 | 83049.00 | 0 | 893.00 | 0.00 | 93 | 83049.00 | |
| 0 | 0.00 | 1996 | 143.00 | 285428.00 | 1996 | 285428.00 | |
| 0 | 0.00 | 1996 | 10.30 | 20558.80 | 1996 | 20558.80 | |
| 0 | 0.00 | 33 | 2178.00 | 71874.00 | 33 | 71874.00 | |
| 5 | 1315.00 | 20 | 263.00 | 5260.00 | 25 | 6575.00 | |
| 5 | 20220.00 | 28 | 4044.00 | 113232.00 | 33 | 133452.00 | |
| 0 | 0.00 | 1493 | 30.00 | 44790.00 | 1493 | 44790.00 | |
| 0 | 0.00 | 58 | 44.00 | 2552.00 | 58 | 2552.00 | |
| 0 | 0.00 | 38 | 14.00 | 532.00 | 38 | 532.00 | |
| 0 | 0.00 | 47 | 84.00 | 3948.00 | 47 | 3948.00 | |
| 0 | 0.00 | 58 | 306.00 | 17748.00 | 58 | 17748.00 | |
| 50 | 3500.00 | 170 | 70.00 | 11900.00 | 220 | 15400.00 | |

| | | |
|---|---|---|
| 14 | Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32 | Nos |
| 15 | Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories.Single bracket 1.5 Mtr. Length | Nos |
| 16 | 2 Pin Cross Arm with pole clamp, bolt & nuts & washers for RCC Pole - MS | Nos |
| 17 | Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections | Nos |
| 18 | Suspension Clamp Assembly16 to 70 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook) | Nos |
| 19 | Dead End Clamp/Anchor Clamp Assembly 25 to95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook) | Nos |
| 20 | Fixing of 2 Pin cross arm with insulator and Braces fixing | Nos |
| 21 | Erection of Suspension Clamp - 25 to 95 sqmm bare messenger | Nos |
| 22 | Installation of Insulation piercing connector for main to street light Main : 16-95sqmm, Tap : 1.5-10sqmm(EP95) | Nos |
| 23 | Fixing of Universal Hook/Dead end clamp | Nos |
| | Total Rs | |
| | Add KRIDL Charges 11% | |
| | Total Rs | |

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 0.00 | 5 | 15000.00 | 75000.00 | 5 | 75000.00 | |
| 0 | 0.00 | 5 | 1292.00 | 6460.00 | 5 | 6460.00 | |
| 0 | 0.00 | 60 | 162.00 | 9720.00 | 60 | 9720.00 | |
| 0 | 0.00 | 120 | 160.00 | 19200.00 | 120 | 19200.00 | |
| 0 | 0.00 | 60 | 190.00 | 11400.00 | 60 | 11400.00 | |
| 0 | 0.00 | 8 | 131.00 | 1048.00 | 8 | 1048.00 | |
| 0 | 0.00 | 60 | 96.00 | 5760.00 | 60 | 5760.00 | |
| 0 | 0.00 | 60 | 115.00 | 6900.00 | 60 | 6900.00 | |
| 0 | 0.00 | 119 | 54.00 | 6426.00 | 119 | 6426.00 | |
| 0 | 0.00 | 0 | 112.00 | 0.00 | 0 | 0.00 | |
| | **1980084.00** | | | **719736.80** | | **2699820.80** | |
| | 217809.24 | | | 79171.05 | | 296980.29 | |
| | **2197893.24** | | | **798907.85** | | **2996801.09** | |